BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

ame of Work: Improvements to Roads and Drains in Gangammagudi and Velangini oad areas in Ward No. 11 Kuvempunagara.

Estimate Cost Rs. 1000000.00

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 149/ Item No. 19.1/ PWD SR 2011-12**	Cum							
	For CC Road		1	52.00	3.00	0.15	23.40		
			1	70.00	3.10	0.15	32.55		
			1	74.00	3.10	0.15	34.20		
							90.15	**62.86**	**5666.00**
	Basic Rate	58.20							
	Area Weightage @8%	4.66							
	Total	**62.86**							
	KSRRB 300-2 : Earth work excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3 **Page No. 149 / Item No. 19.2/ PWD SR 2011-12**	Cum							
	Desilting of Existing CC Drain		2	70.00	0.45	0.45	28.35		
			2	55.00	0.45	0.45	22.28		
							50.63	**87.05**	**4407.00**
	Basic Rate	80.60							
	Area Weightage @8%	6.45							
	Total	**87.05**							
3	KSRRB M300-53. Construction of embankment with approved materials Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications. which includes cost of gravel / Murrum, watering charges & compaction by vibratory roller) **PWD SR 2011-2012 Bangalore circle Pg No. 156, I No. 19.60**	Cum							
	For CC Road		1	52.00	3.00	0.15	23.40		
			1	70.00	3.10	0.15	32.55		
			1	74.00	3.10	0.15	34.20		
							90.15	146.88	**13241.00**
	Basic Rate	136.00							
	Area Weightage @8%	10.88							
	Total	**146.88**							
4	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs** using 40mm and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.12/I.4.3 PWD SR - 2011-12)	Cum							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	For Existing CC Drain Vent Concrete		2	70.00	0.45	0.10	6.30		
			2	55.00	0.45	0.10	4.95		
	For CC Road		1	52.00	3.00	0.15	23.40		
			1	70.00	3.10	0.15	32.55		
			1	74.00	3.10	0.15	34.20		
							101.40	3939.41	**399456.00**
	Basic Rate	3647.60							
	Area Weightage @ 8%	291.81							
	Total	**3939.41**							
	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P.17 / I.4.31 PWD SR - 2011-12)	Sqm							
	Covering Slab Bottom		2	70.00	0.90		126.00		
			2	55.00	0.90		99.00		
							225.00	221.40	**49815.00**
	Basic Rate	205.00							
	Area Weightage @ 8%	16.40							
	Total	**221.40**							
	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum wuth superplastisier @ 3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 **(P.13/I.4.11 PWD SR - 2011-12)**	Cum							
	For Existing CC Drain Covering Slab		2	70.00	0.90	0.10	12.60		
			2	55.00	0.90	0.10	9.90		
							22.50	5296.75	**119177.00**
	Basic Rate	4904.40							
	Area Weightage @ 8%	392.35							
	Total	**5296.75**							
	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19/ Item No. 4.46/ PWD SR 2011-12**	Qtl							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			0.60	30.27			18.16	7347.82	133438.00
	Basic Rate	6803.54		22.50			13.50		99196.00
	Area Weightage @ 8%	544.28							
	Total	**7347.82**							
8	KSRB- 4-1.5 : Providing and laying in position plain cement concrete of **mix M20 with OPC cement @ 300 kgs, with 20mm** and down size graded granite metal coarse aggregates @ 0.64 cum and fine aggregares @ 0.43 cum with superplastisiser @ 3lts confirming to IS9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2, **No. 12/ Item No. 4.5/ PWD SR 2011-12**	Cum							
	For CC Road		1	52.00	3.00	0.10	22.75		
			1	70.00	3.10	0.10	26.25		
			1	74.00	3.10	0.10	11.10		
							60.10	4989.60	**299875.00**
	Basic Rate	4620.00							
	Area Weightage @ 8%	369.60							
	Total	**4989.60**							
9	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123) Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00	Cum	90.15 + 52.63 = 140.78						10236.
			Vide Item No. 1+2				**145.65**	72.71	**10590.00**
	AW of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12					Restricted to 119.66		8700.00
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							8700.00
		67.32							
	Area Weightage @ 8%	5.39							
	Total	**72.71**							
10	Miscellaneous and unforeseen charges	LS							467.00 **582.00**
								Total	**1000000.00**

(Rupees Ten Lakhs Only)

CERTIFICATE :

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2011-12.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

ADMINISTRATIVELY SANCTIONED FOR Rs. 10 Lakhs
Rupees Ten Lakhs only

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Under 22.75% P 1878 - 18 per sqm

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Registered as EE ( ) No 9....9.... Subject to conditions contained in enclosed memo EE ( ) No ...../9/.... Dt 11.7.2012 Estimate A/S sanctioned Sc(Yel) Pa/372 No ..... dated 11.7.2012 Rs 10 Lakhs

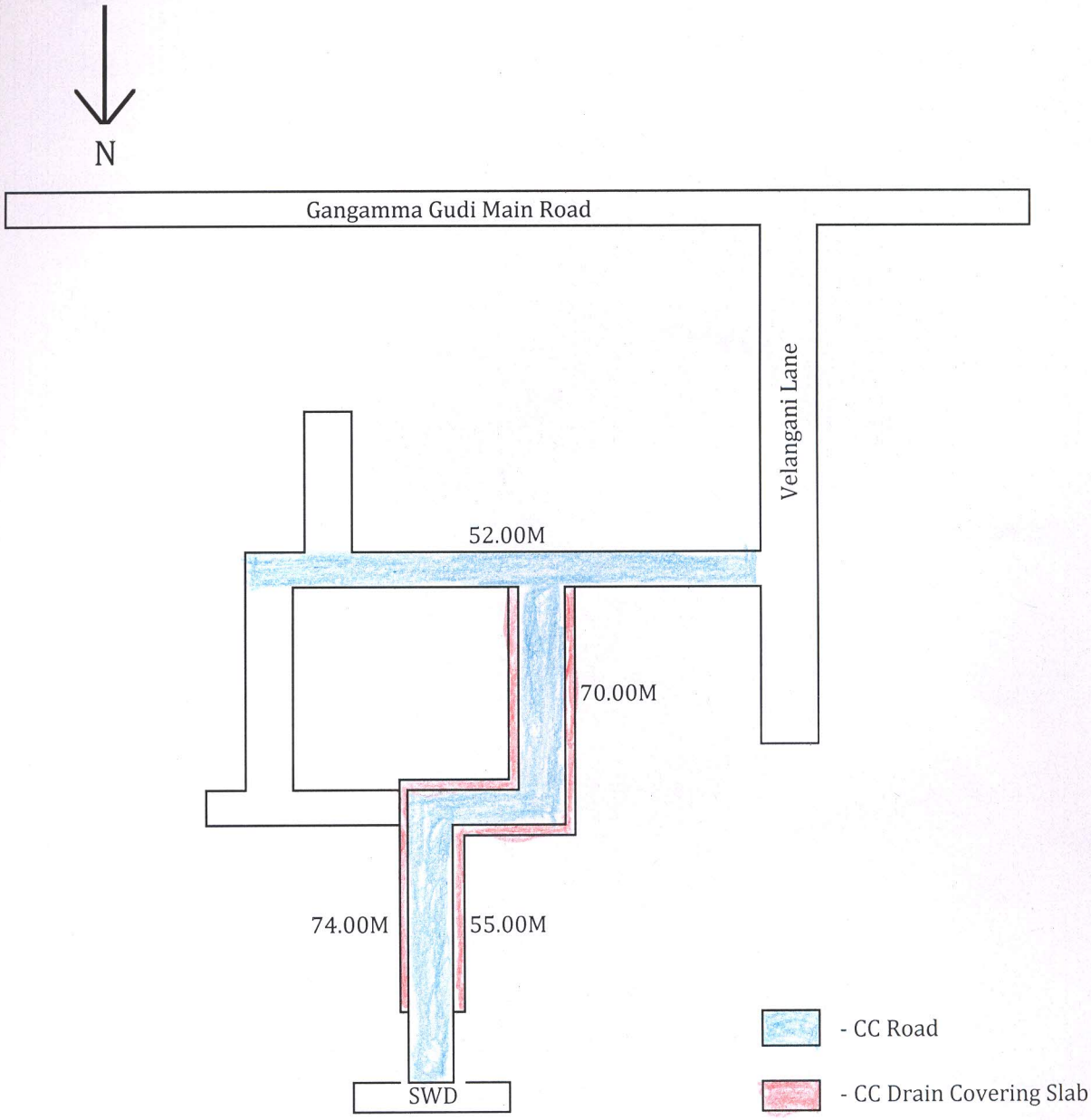
Joint Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92.

Technical Sanction for Rs. 10.00 lakhs
Rupees Ten lakhs only
under P-1878 18%-work
registered as EE No: 198/25.7.18 Subject to conditions contained enclosed memo.
No: 198/12-13/..... Dt. 25.7.12

AE/JE

EE (BTP. Div.)

Sketch Showing the Work of Improvements to Roads and Drains in Gangamma Gudi and Velangani Road areas in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.



Junior Engineer
Ward No. 11

Assistant Executive Engi...
Vidyaranyapura Sub Divisi...
BBMP, Bangalore - 97